

1 What is claimed is:

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3 1. A device for measuring plantar foot pressure, said device
4 comprising:

5 a measuring device for generating an imprint of a patient's foot,
6 said imprint including a first set of at least two differentiable color density
7 markings, said first set of differentiable density markings each corresponding to
8 a different pressure exerted on said measuring device by different areas of the
9 patient's foot; and

10 a calibration card having an indicia thereon, said indicia including
11 a second set of at least two differentiable color density markings, corresponding
12 to said first set of differentiable density markings with like density markings
13 referring to like pressure exerted on said measuring device, wherein each
14 differentiable density marking in said second set of differentiable density
15 markings on said calibration card has a viewing opening disposed within, such
16 that when said viewing openings in said calibration card are placed over said
17 imprint of said patients foot, the first set of differential density markings from
18 said imprint are viewable through said viewing openings so that they are readily
19 comparable to said second set of differentiable density markings in said indicia
20 on said calibration card, allowing the pressure exerted by the patient's foot on a
21 particular area of said imprint to be determined.

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23 2. The device as claimed in claim 1, wherein said measuring device
24 is a multi layered ink impression device.

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2 3. The device as claimed in claim 1, wherein said measuring device
3 is disposable.

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5 4. The device as claimed in claim 1, wherein said first set of
6 differentiable density markings on said imprint of the patient's footprint is a
7 grayscale image.

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9 5. The device as claimed in claim 4, wherein lighter regions in said
10 grayscale depict areas of low pressure and wherein darker areas in said grayscale
11 depict areas of higher pressure.

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13 6. The device as claimed in claim 4, wherein said grayscale
14 measures plantar foot pressure in the range of 0 kg/cm² in white to 15 kg/cm²
15 measured in black.

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17 7. The device as claimed in claim 1, wherein said second set of
18 differentiable density markings in said indicia on said calibration card is a
19 grayscale

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21 8. The device as claimed in claim 7, wherein said each of said
22 markings in said indicia grayscale correspond to a particular range of pressure.

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1 9. The device as claimed in claim 8, wherein each of said markings
2 in said indicia grayscale, corresponding to a particular range of pressures, each
3 maintain its own viewing opening.

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5 10. A method for measuring plantar foot pressure, said method
6 comprising the steps of:

7 generating an imprint of a patient's foot using a measuring
8 device, where said imprint includes a first set of at least two differentiable color
9 density markings, said first set of differentiable density markings each
10 corresponding to a different pressure exerted on said measuring device by
11 different areas of the patient's foot;

12 placing a calibration card over said imprint of said patient's foot,
13 said calibration card having an indicia thereon including a second set of at least
14 two differentiable color density markings, corresponding to said first set of
15 differentiable density markings with like density markings referring to like
16 pressure exerted on said measuring device, wherein each differentiable density
17 marking in said second set of differentiable density markings on said calibration
18 card has a viewing opening disposed within; and

19 determining the pressure exerted by the patient's foot on a
20 particular area of said imprint using a calibration card, such that when said
21 viewing openings in said calibration card are placed on said imprint, the first set
22 of differential density markings from said imprint are viewable through said
23 viewing openings so that they are readily comparable to said second set of

- 1 differentiable density markings in said indicia on said calibration card for
- 2 comparison.